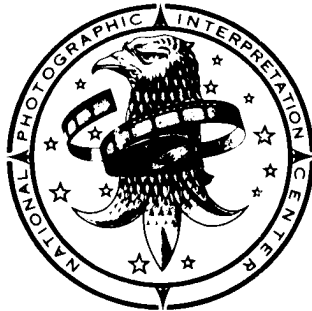


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## **Summary Report**

**NATIONAL PHOTOGRAPHIC  
INTERPRETATION CENTER**

# **FIRST DEPLOYMENT OF BIG FRED RADAR WITH ARTILLERY IN THE SOVIET UNION (S)**



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## FIRST DEPLOYMENT OF BIG FRED RADAR WITH ARTILLERY IN THE SOVIET UNION (S)

(TSR) [ ] four battlefield radars M-1975 (BIG FRED) were observed at Ussuriysk Artillery Division Headquarters/Barracks North AL 2 [ ], USSR. This was the first identification of the Soviets' latest artillery-associated target acquisition radar deployed with artillery in the Soviet Union. A BIG FRED radar was collocated with a BMP (armored amphibious tracked vehicle) variant M-1975 (SMALL FRED) in each of the four artillery regiments in the artillery division. The artillery regiments were composed of either 130mm M-46 or 152mm D-20 field artillery pieces.

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(S/WNINTEL) Only one PORK TROUGH battlefield surveillance radar was seen in the artillery division and no SMALL YAWN counter-mortar/counter-battery radars were observed. Two PORK TROUGH and two SMALL YAWN radars are usually observed in the target acquisition battalion of the artillery division.\* The apparent replacement of these radars with four BIG FRED and four SMALL FRED, deployed down to the artillery regiment level, represents an upgrading of the division's target acquisition capabilities.

(S/WNINTEL) The BIG FRED was first observed in 1975 at Werder Army Barracks and Headquarters Artillery Brigade 261 [ ] and at Bernau Barracks/Headquarters Artillery Brigade 244 [ ]. Both garrisons are [ ] and are composed of 130mm M-46 and 152mm D-20 field artillery pieces.

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(S) Ussuriysk is in the Far East Military District, 30 nautical mile east of the USSR-China Border.

\*DIA. DDI-1100-2-75, *Soviet Ground Force Organizational Guide*, Jun 75 (SECRET)

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